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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/750,664	01/02/2001	Hiroshi Fukumoto	201081US3	7591	
22850	7590 11/26/2002		ý		
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC			EXAMINER		
FOURTH FL			KIM, CHRISTOPHER S		
1755 JEFFERSON DAVIS HIGHWAY ARLINGTON, VA 22202				the Committee of	
AKLINGTO	IN, VA 22202		ART UNIT	PAPER NUMBER	
			3752		
			DATE MAILED: 11/26/2002	<u>)</u>	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)
à	•	09/750,664	FUKUMOTO ET AL.
Office Action Summary		Examiner	Art Unit
		Christopher S. Kim	3752
Period fo	The MAILING DATE of this communication a or Reply		correspondence address
THE - Exte - after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state to reply will, by sta	N. 1.136(a). In no event, however, may a reply be reply within the statutory minimum of thirty (30) dod will apply and will expire SIX (6) MONTHS frought.	timely filed ays will be considered timely. m the mailing date of this communication.
1)[Responsive to communication(s) filed on 2	3 September 2002 .	
2a) <u></u> □	This action is FINAL . 2b)⊠	This action is non-final.	
3)	Since this application is in condition for allo closed in accordance with the practice und	wance except for formal matters, er <i>Ex parte Quayle</i> , 1935 C.D. 11,	prosecution as to the ments is 453 O.G. 213.
	on of Claims Claim(s) <u>1-20</u> is/are pending in the applicati	ion	
	4a) Of the above claim(s) <u>4-20</u> is/are withdra		
	Claim(s) is/are allowed.	wn from consideration.	
·			
	Claim(s) <u>1-3</u> is/are rejected. Claim(s) is/are objected to.		
		las election acquirement	
	Claim(s) are subject to restriction and on Papers	vor election requirement.	
9) 🗌 .	The specification is objected to by the Exami	ner.	
	The drawing(s) filed on is/are: a)□ acc		aminer.
	Applicant may not request that any objection to		
11) 🔲 -	The proposed drawing correction filed on		
	If approved, corrected drawings are required in	reply to this Office action.	
12)	The oath or declaration is objected to by the E	Examiner.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)⊠	Acknowledgment is made of a claim for forei	gn priority under 35 U.S.C. § 119((a)-(d) or (f).
a)[☑ All b) ☐ Some * c) ☐ None of:		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	1. Certified copies of the priority docume	nts have been received.	
	2. Certified copies of the priority docume	nts have been received in Applica	tion No
	 Copies of the certified copies of the pri application from the International E ee the attached detailed Office action for a list 	iority documents have been receiv Bureau (PCT Rule 17.2(a)).	red in this National Stage
14) 🗌 A	cknowledgment is made of a claim for domes	stic priority under 35 U.S.C. § 119	(e) (to a provisional application).
a)	☐ The translation of the foreign language p	rovisional application has been re	ceived.
ttachment			
) Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	ry (PTO-413) Paper No(s) Patent Application (PTO-152)
Patent and Tra O-326 (Rev		Action Summary	Part of Paper No. 7

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species A, figure 1 in Paper No. 6 is acknowledged. The traversal is on the ground(s) that no basis is given as required by MPEP 816 and an examination of all the species would not present a substantially greater burden. This is not found persuasive because the basis as required by MPEP 816 applies to restriction of inventions and not to election of species requirement for. Applicant's allegation of non-burdensome search is unsupported by facts.

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 4-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected species, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 6.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-3 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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The claims are generally narrative and indefinite, failing to conform with current U.S. practice. They appear to be a literal translation into English from a foreign document and are replete with grammatical and idiomatic errors.

Claim 1 recites "a field applier forming an equipotential surface" in line 4. The "field applier" appears to be in reference to the DC voltage source 5. If so, what is the "equipotential surface"? If the "equipotential surface" is in reference to the conductive nozzle plate 3, the "field applier forming an equipotential surface" appears to be a double inclusion of the "liquid holder" recited in line 2.

Claim 2 recites "a conductive nozzle plate" in line 2. It appears to be a double inclusion of the "liquid holder" recited in line 2.

Claim 3 recites "a concave portion" in line 2. It appears to be a double inclusion of the "equipotential surface convexed with respect to the liquid surface" recited in claim 1, lines 4-5.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-3 are rejected under 35 U.S.C. 102(b) as being anticipated by Hochberg, deceased et al. (4,046,074).

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Hochberg et al. discloses a liquid sprayer comprising: a liquid holder 30; a field

applier 40, 42; a conductive nozzle plate 30; a first opening 44; a second opening

(concave portion of 30); an object 12.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Christopher S. Kim whose telephone number is (703)

308-8336. The examiner can normally be reached on Monday - Thursday, 6:30 AM -

5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Y. Mar can be reached on (703) 308-2087. The fax phone numbers

for the organization where this application or proceeding is assigned are (703) 308-7766

for regular communications and (703) 308-7766 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308-

1113.

Christopher S. Kim

Examiner

Art Unit 3752

CK

November 24, 2002

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